

## Cuberover for Lunar Resource Site Evaluation, Phase I

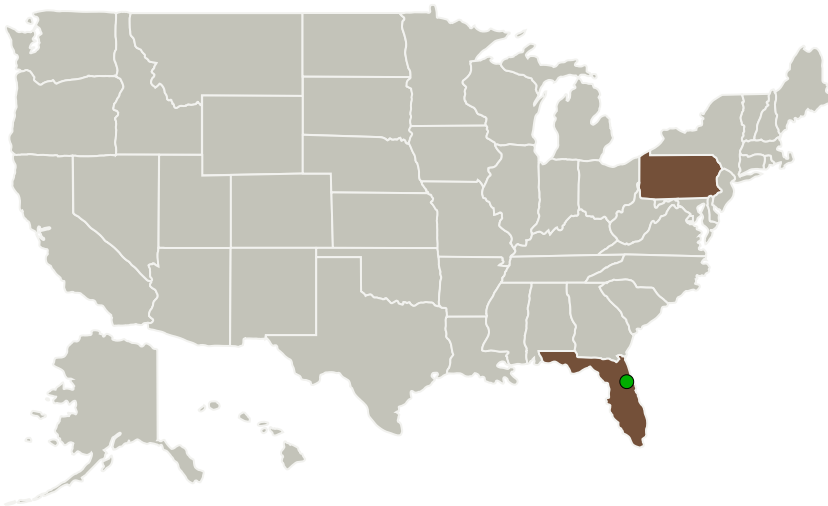
Completed Technology Project (2017 - 2017)



## Project Introduction

The proposed innovation is a Lunar CubeRover specialized as a 2 kg payload to evaluate lander ejecta and to characterize small-rover trafficability. This CubeRover and its roles are specific to the RFP though broadly more general and impactful for exploration enterprise. The proposal offers the prospect for standardization, democratization and broad applicability of CubeRover analogous to the way that CubeSats transformed the domain of Earth orbit and SmallSat enterprise. For the specific context of this proposal, CubeRover is specialized to address III-C-2 In-situ Lunar Surface Trafficability (topic III-C-2) and Descent Engine Blast Ejecta Phenomena (topic III-D-4).


## Primary U.S. Work Locations and Key Partners



Cuberover for Lunar Resource Site Evaluation, Phase I Briefing Chart Image

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Organizations Performing Work	Role	Type	Location
Astrobotic Technology, Inc.	Lead Organization	Industry	Pittsburgh, Pennsylvania
 Kennedy Space Center(KSC)	Supporting Organization	NASA Center	Kennedy Space Center, Florida

## Primary U.S. Work Locations

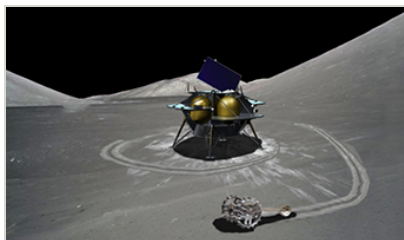
Florida	Pennsylvania
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## Images



### Briefing Chart Image

Cuberover for Lunar Resource Site Evaluation, Phase I Briefing Chart Image

(<https://techport.nasa.gov/image/137004>)

## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Organization:

Astrobotic Technology, Inc.

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

### Program Director:

Jason L Kessler

### Program Manager:

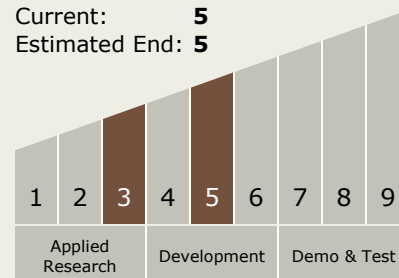
Carlos Torrez

### Principal Investigator:

Andrew Horchler

## Technology Maturity (TRL)

Start: 3  
Current: 5  
Estimated End: 5



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## Technology Areas

### Primary:

- TX04 Robotic Systems
  - └ TX04.2 Mobility
    - └ TX04.2.1 Below-Surface Mobility

## Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System